

**Notice of Allowability**

Application No.

10/762,555

Examiner

Susan F. Rayyan

Applicant(s)

KIJI, JUNICHI

Art Unit

2167

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 8/22/2007.
2. ☒ The allowed claim(s) is/are 1-22.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some\* c) ☐ None of the:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

Susan Rayyan  
November 16, 2007

### REASONS FOR ALLOWANCE

1. Claims 1-22 are allowed.
2. The following is an examiner's statement of reasons for allowance:

Regarding independent claim 1, prior art of record does not teach a flow generation method comprising storing, in a first storage unit, a set of binomial relation data including first term data, second term data, and relation types between the first term data and the second term data, and in a second storage unit, position data which are data on position where each value of the first term data and second term data exists in the set of binomial relation data storing in the first storage unit, extracting first binomial relation data including first term data to be a start point of flow data from the set of binomial relation data in the first storage unit, associating the start point as a first parent node with second term data of the first binomial relation data as a first child node and adding a relation type of the first binomial relation data to an arc of the first binomial relation data.

Regarding independent claim 4, prior art of record does not teach a flow data generation method comprising storing, in a first storage unit, a set of binomial relation data including first term data, second term data, and relation types between the first term data and the second term data, and in a second storage unit, position data which are data on position where each value of the first term data and second term data exists in the set of binomial relation data storing in the first storage unit, extracting first

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binomial relation data including first term data to be a first start point candidate of flow data from the set of binomial relation data in the first storage unit, associating the first start point candidate as a first parent node with second term data of the first binomial relation data as a first child node and adding a relation type of the first binomial relation data to an arc of the first binomial relation data.

Regarding independent claim 10, prior art of record does not teach a first unit a flow data generation apparatus comprising storing, in a first storage unit, a set of binomial relation data including first term data, second term data, and relation types between the first term data and the second term data, and in a second storage unit, position data which are data on position where each value of the first term data and second term data exists in the set of binomial relation data storing in the first storage unit, a second unit extracting first binomial relation data including first term data to be a start point of flow data from the set of binomial relation data in the first storage unit, a third unit associating the start point as a first parent node with second term data of the first binomial relation data as a first child node and a forth unit adding a relation type of the first binomial relation data to an arc of the first binomial relation data.

Regarding independent claim 13, prior art of record does not teach a flow data generation apparatus comprising a first unit storing, in a first storage unit, a set of binomial relation data including first term data, second term data, and relation types

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between the first term data and the second term data, and in a second storage unit, position data which are data on position where each value of the first term data and second term data exists in the set of binomial relation data storing in the first storage unit, a second unit extracting first binomial relation data including first term data to be a first start point candidate of flow data from the set of binomial relation data in the first storage unit, a third unit associating the first start point candidate as a first parent node with second term data of the first binomial relation data as a first child node and a fourth unit adding a relation type of the first binomial relation data to an arc of the first binomial relation data.

Regarding independent claim 19, prior art of record does not teach a flow data generation apparatus comprising a first program code which is stored in the storage device and provides the processor with a command to store, in a first storage unit, a set of binomial relation data including first term data, second term data, and relation types between the first term data and the second term data, and in a second storage unit, position data which are data on position where each value of the first term data and second term data exists in the set of binomial relation data storing in the first storage unit, a second program code which is stored in the storage device and provides the processor with a command to extract first binomial relation data including first term data to be a start point of flow data from the set of binomial relation data in the first storage unit, a third program code which is stored in the storage device and provides the processor with a command to associate the start point as a first parent node with

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second term data of the first binomial relation data as a first child node and a forth program code which is stored in the storage device and provides the processor with a command to add a relation type of the first binomial relation data to an arc of the first binomial relation data.

Regarding independent claim 20, prior art of record does not teach a flow data generation program product which causes a computer system to generate flow data comprising a first program code which is stored in the storage device and provides the processor with a command to store, in a first storage unit, a set of binomial relation data including first term data, second term data, and relation types between the first term data and the second term data, and in a second storage unit, position data which are data on position where each value of the first term data and second term data exists in the set of binomial relation data storing in the first storage unit, a second program code which is stored in the storage device and provides the processor with a command to extract first binomial relation data including first term data to be a first start point candidate of flow data from the set of binomial relation data in the first storage unit, a third program code which is stored in the storage device and provides the processor with a command to associate the first start point candidate as a first parent node with second term data of the first binomial relation data as a first child node and a forth program code which is stored in the storage device and provides the processor with a command to add a relation type of the first binomial relation data to an arc of the first binomial relation data.

Regarding independent claim 21, prior art of record does not teach a flow data generation program product which causes a computer system to generate flow data comprising a first program code which is stored in the storage device and provides the processor with a command to store, in a first storage unit, a set of binomial relation data including first term data, second term data, and relation types between the first term data and the second term data, and in a second storage unit, position data which are data on position where each value of the first term data and second term data exists in the set of binomial relation data storing in the first storage unit, a second program code which is stored in the storage device and provides the processor with a command to extract first binomial relation data including first term data to be a start point of flow data from the set of binomial relation data in the first storage unit, a third program code which is stored in the storage device and provides the processor with a command to associate the start point as a first parent node with second term data of the first binomial relation data as a first child node and a forth program code which is stored in the storage device and provides the processor with a command to add a relation type of the first binomial relation data to an arc of the first binomial relation data.

Regarding independent claim 22, prior art of record does not teach a first program code which is stored in the storage device and provides the processor with a command to store, in a first storage unit, a set of binomial relation data including first term data, second term data, and relation types between the first term data and the second term

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data, and in a second storage unit, position data which are data on position where each value of the first term data and second term data exists in the set of binomial relation data storing in the first storage unit, a second program code which is stored in the storage device and provides the processor with a command to extract first binomial relation data including first term data to be a first start point candidate of flow data from the set of binomial relation data in the first storage unit, a third program code which is stored in the storage device and provides the processor with a command to associate the first start point candidate as a first parent node with second term data of the first binomial relation data as a first child node and a forth program code which is stored in the storage device and provides the processor with a command to add a relation type of the first binomial relation data to an arc of the first binomial relation data.


Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."


**Contact Information**

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Susan F. Rayyan whose telephone number is 571-272-1675. The examiner can normally be reached on M-F, 7:30-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Cottingham can be reached on 571-272-7079. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

  
Susan Rayyan  
11/19/2007

  
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